

Case 3467**ZOSIMIDAE Seifried, 2003 (Crustacea, Copepoda, Harpacticoida): proposed emendation of spelling to ZOSIMEIDAE to remove homonymy with ZOSIMINAE Alcock, 1898 (Crustacea, Decapoda, XANTHIDAE)**

Rony Huys and Paul F. Clark

Department of Zoology, Natural History Museum, Cromwell Road, London SW7 5BD, U.K. (e-mail: rjh@nhm.ac.uk and pfc@nhm.ac.uk)

Abstract. The purpose of this application, under Articles 29 and 55.3.1 of the Code, is to remove homonymy between the family-group names ZOSIMINAE Alcock, 1898 (Crustacea, Decapoda) and ZOSIMIDAE Seifried, 2003 (Crustacea, Copepoda) by changing the spelling of the junior homonym. It is proposed that the entire name *Zosime* Boeck, 1873 (Copepoda) be used to form ZOSIMEIDAE, leaving the stem of the senior homonym (based on the name *Zosimus* A.-G. Desmarest, 1823; Decapoda) unchanged. *Zosimus* A.-G. Desmarest, 1823 and *Zosime* Boeck, 1873 are respectively the type genera of ZOSIMINAE Alcock, 1898 (Decapoda) and ZOSIMIDAE Seifried, 2003 (Copepoda).

Keywords. Nomenclature; taxonomy; Crustacea; Decapoda; Copepoda; Harpacticoida; XANTHIDAE; ZOSIMEIDAE; ZOSIMIDAE; ZOSIMINAE; *Zosime*; *Zosimus*; *Zosime typica*; cosmopolitan.

1. Leach (1818) introduced the French vernacular names ‘Carpile’, ‘Clodorée’ (sic) and ‘Zosime’ for three genera of decapod crustaceans but did not include a description, definition or indication of the taxa they denoted (Leach, 1818, pp. 74–75). Under Article 12 Leach’s names are nomina nuda and must be considered unavailable.

2. A.-G. Desmarest (1823, p. 228) latinised Leach’s (1818) vernacular names in a footnote to his text dealing with the genus *Cancer*, naming them *Carpilius*, *Clorodius* and *Zosimus*, respectively. This footnote was essentially repeated verbatim in A.-G. Desmarest (1825, pp. 104–105). Through correspondence with Pierre André Latreille (his colleague at the veterinary school at Alfort near Paris) A.-G. Desmarest was aware of an unpublished manuscript (‘Dans un travail qui n’a pas été publié, M. Leach a formé . . .’) in which Leach introduced the three latinised genus-group names. Leach resigned from the British Museum on 9 March 1822 and never published the manuscript (Harrison & Smith, 2008). Under Article 50, authorship and date of the generic names *Carpilius*, *Clorodius* and *Zosimus* must be attributed to A.-G. Desmarest (1823) since he was the person who first published them in a way that satisfied the criteria of availability. Subsequent treatment of *Carpilius* by various authors and the Commission poses problems, the resolution of which will be proposed separately.

3. As for *Zosimus*, the original description by A.-G. Desmarest (1823, p. 228) is concise (‘. . . *Zosimus* . . . est voisin des xanthes, et . . . comprend le *Cancer æneus* et quelques autres espèces dont les pieds sont un peu aplatis’) but effectively designates

Cancer aeneus Linnaeus, 1758 as the type species by monotypy. E. Desmarest's (1858, p. 17) subsequent designation of '*Cancer rugosus* Fabr.' as type species of '*Zozymus*' is not only invalid but also refers to an incorrect binominal name and authorship. The French vernacular name (Zozyme ridé) cited by E. Desmarest (1858) suggests that he meant the species described as *Zozymus rugatus* H. Milne Edwards, 1834 (p. 385) (and denoted by the same vernacular name) now placed in the genus *Liomera* Dana, 1851.

4. Despite the history recounted above, the generic name *Zosimus* was placed on the Official List of Generic Names in Zoology in Opinion 85 (16 December 1925) and attributed to 'Leach in Desmarest, 1823' (*Smithsonian Miscellaneous Collections*, 73(3): 13–18). Later, in Direction 37 (Completion of the entries relating to names of certain genera of the Order Decapoda (Class Crustacea) placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936; 1 September 1956), the name *Zosimus* was attributed to either 'Leach, 1823' (pp. 53, 69) or 'Leach, 1825' (pp. 61, 77) without reference to A.-G. Desmarest at all (*Opinions and Declarations* 1(Section D, Part D.2): 47–82).

5. The nomenclatural history of the genus *Zosimus* is riddled with subsequent incorrect spellings, which in many cases led to the erroneous citation of family-group names based on them. As was noted above, Henri Milne Edwards (1834, p. 383) used the spelling *Zozymus* for *Zosimus*, referring to it in a footnote as '*Zozymus* Leach'. This subsequent spelling was adopted by many authors (e.g. Miers, 1886, p. 134; Henderson, 1893, p. 359; Alcock, 1898, p. 103; Balss, 1922, p. 124; Sakai, 1939, p. 450; Ward, 1942, p. 85; Tweedie, 1950, p. 115). The Commission (Direction 37, 1 September 1956) ruled that *Zozymus* Milne Edwards (H.) was an incorrect subsequent spelling for *Zosimus* Leach, 1825 (*Opinions and Declarations* 1(Section D, Part D.2): 47–82), but the name nevertheless continued to be in wide usage (e.g. Sankarankutty, 1961, p. 128; Edmondson, 1962, p. 225; Chang, 1963, p. 98; Michel, 1964, p. 32; Kensley, 1981, p. 46). Other incorrect subsequent spellings of *Zosimus* include *Zozimus* by Boone (1934, p. 99), *Zoozymus* by Balss (1938, p. 38) and *Zosymus* by Serène (1968, p. 73), which was subsequently adopted by Sakai (1976, pp. 402–403).

6. Alcock (1898, p. 77) subdivided the subfamily XANTHINAE into six 'Alliances', which would nowadays be attributed infrasubfamilial rank similar to that of tribe. In the ZOZYMOIDA (based on the incorrect subsequent spelling *Zozymus*) he included the genera *Atergatis* de Haan, 1833, *Lophactaea* A. Milne Edwards, 1862, *Zozymus* Leach in Desmarest, 1823 and *Lophozozymus* A. Milne Edwards, 1863 (Alcock, 1898, p. 94). The next reference to this family-group name is Stimpson's (1907, p. 57) posthumous publication (prepared in 1858), which makes mention of a taxon ZOZYMINAE. Both Serène (1968, p. 73) and Sakai (1976, pp. 385, 401) continued to use ZOZYMOIDA while Takeda (1976, p. 70) followed Stimpson (1907) in attributing subfamilial rank to the taxon (as ZOZYMINAE). Family-group names based on incorrect subsequent spellings are to be corrected (Article 32.5.3.3 of the Code). Serène (1984, p. 137) corrected the spelling to ZOSIMINAE in accordance with the original spelling of the type genus and placed the subfamily in the XANTHIDAE, but erroneously attributed authorship to 'Stimpson, 1907'. Števcíć (2005, p. 44) effectively cited ZOSIMINI Alcock, 1898 as one of nine tribes recognised within the subfamily XANTHINAE and listed *Zosimus* (attributed to Leach, 1818) as the type genus. In recent years, authors (e.g. Clark & Ng, 1998; Clark et al., 2004; Poore,

2004) have treated the taxon as a subfamily ZOSIMINAE in the XANTHIDAE and this rank is also used in Ng et al. (2008, pp. 30, 205).

7. Boeck (1873, p. 45) introduced the generic name *Zosime* for a new genus of harpacticoid copepods in a publication completely lacking in illustrations. The only originally included species was *Zosime typica* Boeck, 1873, which is the type species by monotypy. A detailed re-description was provided by Sars (1903, pp. 27–28, Plate XV) based on material from the type locality (Oslofjord). Members of *Zosime* are common representatives of the harpacticoid communities in deepwater benthic habitats (e.g. Fiers, 1991; Huys et al., 1992; Ahnert & Schriever, 2001; Baguley et al., 2006) and several authorities have published species identification keys for the genus (Bodin, 1968; Coull, 1973; Dinet, 1974). According to Wells (2007, p. 73) *Zosime* currently accommodates 14 valid species and two subspecies, but it is known that several new species await description (e.g. Carey & Montagna, 1982; Kotwicki, 2002; Mu et al., 2002; Seifried, 2003).

8. Sars (1903, p. 26) placed the genus *Zosime* Boeck, 1873 in the family CERVINIIDAE Sars, 1903 (a junior synonym of AEGISTHIDAE Giesbrecht, 1893) but this assignment was disputed by Lang (1944, p. 10; 1948, p. 361), who transferred the genus to a new subfamily IDYANTHINAE Lang, 1944 in the family TISBIDAE Stebbing, 1910. Por (1967, p. 123) attributed *Zosime* Boeck, 1873 to the family TACHIDIIDAE Boeck, 1865 but this placement is almost certainly a lapsus calami. The family-group name ZOSIMIDAE was first introduced as an nomen nudum by Huys et al. (1992, Table 2 & p. 37) in an ecological paper. Although the taxa ‘ZOSIMIDAE (*Zosime*, *Tachidiella*)’ and ‘IDYANTHIDAE (*Idyella*, *Idyanthe*, *Tachidiopsis*)’ were treated as separate entities in Huys et al.’s (1992) analysis, under Article 13.1 of the Code, the nomenclatural impact of this act is nil. Seifried (2003, p. 100) established a new family ZOSIMIDAE for the genera *Zosime* Boeck, 1873, *Peresime* Dinet, 1974 and *Pseudozosime* T. Scott, 1912, which she had removed from the former tisbid subfamily IDYANTHINAE.

9. ZOSIMIDAE Seifried, 2003 (type genus *Zosime* Boeck, 1873) (Copepoda) is a junior homonym of ZOSIMINAE Alcock, 1898 (type genus *Zosimus* A.-G. Desmarest, 1823 (Decapoda)). Under Article 55.3.1 the homonymy between ZOSIMINAE Alcock, 1898 and ZOSIMIDAE Seifried, 2003 must be referred to the Commission. We propose that the entire generic name *Zosime* Boeck, 1873 be adopted as the grammatical stem, so that the copepod family name will become ZOSIMEIDAE and the homonymy will be removed.

10. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary power to rule that for the purposes of Article 29 of the Code the stem of the generic name *Zosime* Boeck, 1873 is *Zosime*-;
- (2) to place on the Official List of Generic Names in Zoology the name *Zosime* Boeck, 1873 (gender: feminine), type species by monotypy *Zosime typica* Boeck, 1873 (Crustacea, Copepoda);
- (3) to place on the Official List of Specific Names in Zoology the name *typica* Boeck, 1873 as published in the binomen *Zosime typica* (specific name of the type species of *Zosime* Boeck, 1873) (Crustacea, Copepoda);
- (4) to place on the Official List of Family-Group Names in Zoology the following names:
 - (a) ZOSIMINAE Alcock, 1898, type genus *Zosimus* A.-G. Desmarest, 1823 (Crustacea, Decapoda);

- (b) ZOSIMEIDAE Seifried, 2003, type genus *Zosime* Boeck, 1873 (spelling emended by the ruling in (1) above) (Crustacea, Copepoda);
- (5) to place on the Official Index of Rejected and Invalid Family-Group Names in Zoology the name ZOSIMIDAE Seifried, 2003 (an incorrect original spelling of ZOSIMEIDAE, as ruled in (1) above) (Crustacea, Copepoda).

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